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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/872,397	05/31/2001	Eugene B. Hogenauer	046301-014000	2872
22204 7590 10/31/2007 NIXON PEABODY, LLP 401 9TH STREET, NW SUITE 900 WASHINGTON, DC 20004-2128			EXAMINER	
			WOOD, WILLIAM H	
			ART UNIT	PAPER NUMBER
			2193	
			MAIL DATE	DELIVERY MODE
			10/31/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		$m^{N}$			
	Application No.	Applicant(s)			
	09/872,397	HOGENAUER, EUGENE B.			
Office Action Summary	Examiner	Art Unit			
	William H. Wood	2193			
The MAILING DATE of this communication appeariod for Reply	pears on the cover sheet with the (	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	NATE OF THIS COMMUNICATION  136(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE.	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status	•				
1) Responsive to communication(s) filed on <u>07 F</u>	ebruary 2007.				
2a)⊠ This action is <b>FINAL</b> . 2b)☐ This	s action is non-final.				
• ***	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposition of Claims					
4) Claim(s) 1-27 is/are pending in the application	1.				
4a) Of the above claim(s) is/are withdra	wn from consideration.				
5) Claim(s) is/are allowed.		•			
6)⊠ Claim(s) <u>1-27</u> is/are rejected.					
7) Claim(s) is/are objected to.	or election requirement				
8) Claim(s) are subject to restriction and/o	or election requirement.				
Application Papers					
9) ☐ The specification is objected to by the Examine	er.				
10)☐ The drawing(s) filed on is/are: a)☐ acc	cepted or b) objected to by the	Examiner.			
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correct					
11) ☐ The oath or declaration is objected to by the E	xammer. Note the attached Office	e Action of John PTO-152.			
Priority under 35 U.S.C. § 119	•				
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:		n)-(d) or (f)			
1. Certified copies of the priority document		ion No			
<ul><li>2. Certified copies of the priority documen</li><li>3. Copies of the certified copies of the priority</li></ul>					
application from the International Burea		A management of the state of th			
* See the attached detailed Office action for a list		ed.			
Attachment(s)		WILLIAM WOOD PRIMARY EXAMINER PRIMARY			
Notice of References Cited (PTO-892)     Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D	y (PTO-413) PAIMAT			
3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	5) Notice of Informal (6) Other:				

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#### **DETAILED ACTION**

Claims 1-27 are pending and have been examined.

# Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 27 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Applicant's original disclosure does not provide support for the new limitation, "executing an initial schedule on the plurality of heterogeneous computational elements" (claim 27). There is no indication an execution occurs of the initial schedule before the cost evaluation. Therefore, for the purpose of the below rejections, execution will not be interpreted as having weight.

# Claim Rejections - 35 USC § 102

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application

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designated the United States and was published under Article 21(2) of such treaty in the English language.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-3, 12 and 14-15 are rejected under 35 U.S.C. 102(e) as being anticipated by **Wuytack** et al. (USPN 6,421,809). Claims are rejected substantially the same as in Office Action mailed 05 November 2004 and are therefore not repeated.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4-10, 16-22 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Wuytack** et al. (USPN 6,421,809) in view of **Crawford, Jr**, et

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al. (USPN 6,456,996). Claims are rejected substantially the same as in Office Action mailed 05 November 2004 and are therefore not repeated.

### Claim 27

The limitations of claim 27 correspond to limitation found in claims 1-10, 12 and 14-22 and as such claim 27 is rejected in a corresponding manner.

Claims 11 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Wuytack** et al. (USPN 6,421,809) in view of **Subramanian**, et al. (US 2002/0024993). Claims are rejected substantially the same as in Office Action mailed 05 November 2004 and are therefore not repeated.

Claims 23-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Wuytack** et al. (USPN 6,421,809) in view of **Subramanian**, et al. (USPN 6,426,996). Claims are rejected substantially the same as in Office Action mailed 05 November 2004 and are therefore not repeated.

# Response to Arguments

Applicant's arguments filed 07 February 2007 have been fully considered but they are not persuasive. Applicant argues **Wuytack** fails to disclose heterogeneous computation units. This is not persuasive as the cited prior art

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mentions optimizing memory and architecture (Applicant's Remarks, page 9, last paragraph; **Wuytack**: column 6, line 39 to column 7, line 12). The memories along have differing size and interconnection patterns. Therefore, the cited prior art discloses "heterogeneous". The rejections are maintained as indicated.

#### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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# Correspondence Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William H. Wood whose telephone number is (571)-272-3736. The examiner can normally be reached 10:00am - 4:00pm Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571)-272-3756. The fax phone numbers for the organization where this application or proceeding is assigned are (571)273-8300 for regular communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained form either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR systems, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. For questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)305-3900.

William H. Wood Patent Examiner AU 2193

October 25, 2007